
Peripheral Software Download

The Peripheral Software Download (PSDL) feature stores Peripheral Software (PSW) on disk for

- Network Cards (NT8D04)
- Network/DTR (NT8D16)
- Controllers cards (NT8D01)

The PSW is downloaded to the peripheral cards when:

- system initialization occurs
- the card is enabled via ENLL and ENXP commands in LD 30 and LD 32
- the card undergoes power up reset

Control of initialization downloaded is defined in LD 97.

SDL messages

- SDL0000 text Peripheral Software Download has occurred. The output format is:
SDL0000 device, VERSION x, mode
Where device is :
XNET loop = NT8D08 Network card loop number
XNPD loop = NT8D16 Network/DTR card loop number
XPEC xpec# (loop shelf) = NT8D01 Controller card
Where VERSION x = Peripheral Software version (0-99)
Where mode is :
FAST MODE (from initialization)
MAINT MODE (by ENLL command in LD30/LD32)
BKGD MODE (second attempt after initialization)
- SDL0100 status Current status of the Peripheral Software Download process.
Status can be :
BUSY (download in process)
IDLE
SUSP (user loading a program with SUSP option)
ABRT (aborting)
- SDL1301 Failure in starting the PSW download process.
Action: Do a manual initialization and try the download again. If still unsuccessful, do a manual SYSLOAD. CAUTION: Initialization and SYSLOAD will interrupt call processing.
- SDL1302 Failure in continuing the PSW download process.
Action: Do a manual initialization and try the download again. If still unsuccessful, do a manual SYSLOAD. CAUTION: Initialization and SYSLOAD will interrupt call processing.
- SDL2100 Cannot allocate memory for PSDL output buffers.
- SDL2110 e hw a v m Failed to download software to device.

Where:

e (cause of the error) can be:

1 = Acknowledgment timeout error

2 = Peripheral Software (PSW) version or checksum error

3 = PSW record checksum error

4 = PSW record format error

5 = Card firmware state error

hw (card name) can be:

XNET (Network Card)XPEC (Peripheral Controller), etc.

a (card address) can be:

Loop for Network Card, Network/DTR Card

XPEC # (loop shelf) for Peripheral Controller

v is the PSW version

m can be:

FAST MODE (from initialization)

MAINT MODE (by ENLL command in LD 30)

BKGD MODE (second attempt after initialization from background program)

Action: Try to download to the card by using the appropriate enable command.

SDL2401 Failed to allocate a Call Register for Peripheral Software Download (PSDL).

Action: Do a manual initialization and try the download again. CAUTION: Initialization will interrupt call processing.

SDL4200 All target devices in the current Peripheral Software Download (PSDL) list failed download.

Action: Do the following in order:

1. Do a manual SYSLOAD and try download again. CAUTION: this will interrupt call processing.
2. Use a different set of system disks.
3. Replace all cards involved.

SDL5201 Invalid SL-1 software version.

Action: Check the software version on disk.

SDL5202	Peripheral Software (PSW) is not configured on the disk.
SDL5301	Insufficient memory for the Peripheral Software (PSW) subdirectory. Action: Try manual initialization and retry the command. CAUTION: Initialization will interrupt call processing.
SDL5302 v	The Peripheral Software (PSW) version v can not be found on the disk.
SDL5303 t	The Peripheral Software (PSW) Type cannot be found on the disk. Where t = the requested device Type, where: XNET = Network card XPND = Network/DTR card XPEC = Controller card
SDL7111 loop	Failure in writing Peripheral Software (PSW) data to a loop. Action: Check the network card.
SDL7112 loop	The Peripheral Controller, Network or Network/DTR card has requested an SDL download. The PSDL is waiting to recover the bad cards; but, they can also be recovered by the Midnight SDL Audit. Action: If the program was loaded manually, exit the activity by entering "*****" or "END" as soon as possible.
SDL7113	Trying to put the Peripheral Controller, Network or Network/DTR card into the PSDL tree has failed five (5) times. These cards will not be recovered by SDL. Action: Initialize manually.
SDL7114	The SDL recovery request for this Peripheral Controller has been ignored, because of more than ten (10) requests so far today.
SDL7115 loop	The SDL recovery request for this Network or Network/DTR card has been ignored, because of more than ten (10) requests so far today.
SDL7116	The request for SDL auto-recovery has not been queued nor processed. The system cannot get a three-word data block.
SDL7117 x y z	An error occurred when downloading PSW records to the MSDL/MISP card. Where: x = card type being downloaded H.4 : MISP base code H.5 : BRIL application

H.6 : BRIT application

H.7 : MSDL base code

H.8 : SDI application

H.9 : DCH application

H.10: AML application

Where: y = card address to which download was done (INDEX number of MSDL / MISP)

Where: z = Status of card (CSTAT value) for card type. MSDL base code and MISP base code. Status of card (STAT value) for applications on MSDL/MISP card.

SDL7118 x y z An error occurred when downloading PSW records to the MSDL/MISP card.

Meridian 1 was not able to send messages to MSDL/MISP card.

Where: x = card type that was being downloaded

H.4 : MISP base code

H.5 : BRIL application

H.6 : BRIT application

H.7 : MSDL base code

H.8 : SDI application

H.9 : DCH application

H.10: AML application

Where: y = card address to which download was done (INDEX number of MSDL/ MISP).

Where: z = Return value from MSDLMISP_HDLR

H.0 : Request to send message failed

H.2 : MSDL/MISP card is not operational

H.5 : No buffer available to send message to MSDL/MISP card

Action: Check the state of the MSDL card. Try to disable and enable MSDL/ MISP card from the software. If the problem persists, contact your technical support.